GEORGIA INSTITUTE OF TECHNOLOGY — OFFICE OF CONTRACT ADMINISTRATION

PROJECT ADMINISTRATION DATA SHEET

[X] ORIGINAL [ ] REVISION NO. ____

Project No. D-48-690 (R5996-0A0) A. Lesniewski GTRC/~~GIT~~ DATE 7 / 31 / 85

Project Director: ~~Mitchell A. Bring; John G. Archea~~ School/~~Lab~~ Arch

Sponsor: National Science Foundation

Type Agreement: Grant MSM-8506907

Award Period: From 7/15/85 To ~~12/31/86*~~ 12/31/87 (Performance) 3/31/87 (Reports)

Sponsor Amount:	This Change	Total to Date
Estimated: $		$ 26,551
Funded: $		$ 26,551

Cost Sharing Amount: $ 13,275 Cost Sharing No: D-48-317

Title: Engineering Research Equipment: Optimal Memory Disc Recording System

ADMINISTRATIVE DATA — OCA Contact John Schonk x4820

1) Sponsor Technical Contact:	2) Sponsor Admin/Contractual Matters:
Gifford H. Albright	Richard E. Hastings
National Science Foundation	National Science Foundation
ENG/CEE	DGC/ENG
Washington, DC 20550	Washington, DC 20550
(202) 357-9542	202/357-9626

Defense Priority Rating: ____ Military Security Classification: ____

(or) Company/Industrial Proprietary: ____

RESTRICTIONS

See Attached NSF Supplemental Information Sheet for Additional Requirements.

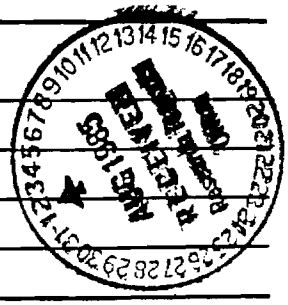
Travel: Foreign travel must have prior approval — Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of $500 or 125% of approved proposal budget category.

Equipment: Title vests with GIT

COMMENTS:

*6 month unfunded flexibility period.

No funds may be expended after 12/31/86



COPIES TO:

SPONSOR'S I. D. NO. 02.107.000.85.079

Project Director	Procurement/GTRI Supply Services	GTRC
Research Administrative Network	Research Security Services	Library
Research Property Management	Reports Coordinator (OCA)	Project File
Accounting	Research Communications (2)	Other A. Jones

GEORGIA INSTITUTE OF TECHNOLOGY OFFICE OF CONTRACT ADMINISTRATION

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

Date 4/8/88

Project No. D-48-690 School/~~Lab~~ ARCH

Includes Subproject No.(s) N/A

Project Director(s) A. Lesniewski GTRC/~~GIT~~

Sponsor National Science Foundation

Title Engineering Research Equipment: Optimal Memory Disc Recording System

Effective Completion Date: 12/31/87 (Performance) 3/31/88 (Reports)

Grant/Contract Closeout Actions Remaining:

- [X] None
- [ ] Final Invoice or Copy of Last Invoice Serving as Final
- [ ] Release and Assignment
- [ ] Final Report of Inventions and/or Subcontract:
  Patent and Subcontract Questionnaire sent to Project Director [ ]
- [ ] Govt. Property Inventory & Related Certificate
- [ ] Classified Material Certificate
- [ ] Other

Continues Project No. Continued by Project No.

COPIES TO:

Project Director
Research Administrative Network
Research Property Management
Accounting
Procurement/GTRI Supply Services
Research Security Services
Reports Coordinator (OCA)
Program Administration Division
Contract Support Division
Facilities Management - ERB
Library
GTRC
Project File
Other

D-48-690

March 30,1988

Technical Report

National Science Foundation
Grant MSM-8506907
Project No. D-48-690
Cost Sharing No. D-48-317

Title: Engineering Research Equipment:
Optical Memory Disc Recording System

During period of time from July 1985 till February 1988 in the College of Architecture, the Georgia Institute of Technology a system has been created for purpose of collecting, manipulating and processing pictorial information. The core of the system is

an Optical Memory Disc Recorder - Panasonic TQ-2026F.

Following is a list of additional equipment acquired.

- Disc Player TQ-2024F
- Sony RGB Camera DXC-3000H
- Fotovix - slide to video transfer device
- Sony Color Monitor KV-1311
- Nova 620 Time Base Corrector
- TARGA 16 Graphic Adapter
- Seiko CH-5301 Color Printer
- Cannon IX-12 Scanner
- controllers,software etc.

Currently following projects take advantage of Optical Memory Disc Recorder system :

- Pictorial Data Base - a collection of visual material for architectural research and study. A collection of a few thousands of slides about styles in architecture is being assembled on a disc with appropriate data base.
- New Presentation Media - animation in architectural design. AutoCAD and AutoSHADE software is used with Optical Memory Disc Recorder to create animated presentations and study an impact of a new structures on environment.
- Pictorial Data Base - feasibility study on use of pictorial data base with CAD system by architects. Resulted in project proposal.

Research results have not matured to the point where publications have resulted.

Principal Investigator

Anatoliusz Lesniewski

NATIONAL SCIENCE FOUNDATION
Washington, D.C. 20550

FINAL PROJECT REPORT
NSF FORM 98A

PLEASE READ INSTRUCTIONS ON REVERSE BEFORE COMPLETING

PART I—PROJECT IDENTIFICATION INFORMATION

1. Institution and Address	2. NSF Program	3. NSF Award Number
Georgia Institute of Technology College of Architecture Atlanta, Georgia 30332-0155	Rpts Perf.	MSM-8506907
	4. Award Period From 7/15/85 To 03/31/88 12/31/87	5. Cumulative Award Amount $26,551/$13,275 shared

6. Project Title
Engineering Research Equipment: Optical Memory Disc Recording System

PART II—SUMMARY OF COMPLETED PROJECT *(FOR PUBLIC USE)*

Acquired equipment allows to record on Optical Memory Disc Recorder TQ-2026F color, graphic information from any composite video source such as:

- video tape
- video camera
- slide-to-video converter
- laser disk

Information can be recorded as a motion with two channel audio or as a stills. Pictures can be transfered to the optical disc directly from the source or first edited and annotated by means of image processing software. Once entered to optical disc pictures can be accessed randomly within a fraction of second and manipulated by microcomputer. Capacity of a disc - 24,000 still frames or 14 minutes of motion allows to collect sufficient amount of data on a single disc for analysis or database applications. For each picture a color hard copy can be obtained for documentation purposes.

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- Pictorial Data Base - feasibility study on use of pictorial data base with CAD system by architects. Resulted in project proposal.

PART III—TECHNICAL INFORMATION *(FOR PROGRAM MANAGEMENT USES)*

1. ITEM *(Check appropriate blocks)*	NONE	ATTACHED	PREVIOUSLY FURNISHED	TO BE FURNISHED SEPARATELY TO PROGRAM	
				Check (✓)	Approx. Date
a. Abstracts of Theses	X				
b. Publication Citations	X				
c. Data on Scientific Collaborators	X				
d. Information on Inventions	X				
e. Technical Description of Project and Results					
f. Other *(specify)*					

2. Principal Investigator/Project Director Name *(Typed)*	3. Principal Investigator/Project Director Signature	4. Date
Anatoliusz Lesniewski		

Form Approved OMB No. 3145-0058